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OBSERVATIONS AT RIVAS, NICARAGUA.

The records contributed for many years by Dr. Earl Flint, at Rivas, Nicaragua, include barometric readings. His present station is at 11° 26' N., 85° 47' W. The observations at 7:17 a.m., local time, are simultaneous with Greenwich 1 p.m. The altitude of the barometer is now said to be 4 feet above ground; the thermometer 6 feet above ground; the rain gage 7 feet above ground. The ground is 210 feet above sea level. Until the barometer has been compared with a standard it seems hardly necessary to publish the daily readings. The wind force is recorded on the Beaufort scale, 0-12. When cloudiness is less than $\frac{1}{10}$, the letter "F," or "Few," is recorded.

Simultaneous observations at 1 p. m. Greenwich (or 7:17 a. m. local) time, November, 1899.

Date.	Temperature.		Wind.		Upper clouds.			Lower Clouds.		
	Alt.	Dew-point.	Direction.	Force.	Kind.	Amount.	Direction from.	Kind.	Amount.	Direction from.
1.	o	o	e.	2	.	.	.	k.	3	e.
2.	77	74	e.	2	.	.	.	ks.	3	e.
3.	78.5	74	ne.	4	.	.	.	0	0	ne.
4.	78	74	ne.	0	0	0	0	0	0	0
5.	77.5	74	e.	3	.	.	.	ak.	8	se.
6.	76.5	73	n.	6	.	.	.	ks.	10	ne.
7.	76.5	73	ne.	0	.	.	.	ak.	8	n.
8.	76.5	74	w.	0	.	.	.	k.	10	n.
9.	77.5	75	ne.	3	.	.	.	ak.	10	w.
10.	78	74	ne.	1	ok.	2	sw.	ak, k.	9, 1	ne.
11.	77	74	ne.	3	.	.	.	ks.	1	ne.
12.	79	75	ne.	8	.	.	.	ak, ks.	8	ne.
13.	79	73	ne.	5	.	.	.	ak, ks.	1	ne.
14.	78.5	76	ne.	2	.	.	.	k.	10	ne.
15.	77	74	ne.	3	.	.	.	ks.	10	ne.
16.	76.5	71	ne.	3	.	.	.	ak, ks.	9	ne.
17.	79	73	ne.	4	.	.	.	ak.	6	ne.
18.	80	72	ne.	5	.	.	.	ak.	few.	ne.
19.	78	75	ne.	3	ok.	5	sw.	n.	1	ne.
20.	78.5	76	ne.	2	.	.	.	k.	9	ne.
21.	77	76	sw.	1	.	.	.	kn.	10	sw.
22.	78	77	sw.	0	.	.	.	ak, k.	2, 5	sw, ne.
23.	80	76	sw.	0	cs.	2	se.	ak, k.	3, 3	se, sw.
24.	78	74	nw.	0	cs, ok.	10	nw.	.	.	.
25.	78	74	sw.	0	cs.	9	sw.	.	.	.
26.	76	78	ne.	0	cs.	2	ne.	ks.	8	ne.
27.	76.5	78	ne.	1	.	.	.	k.	10	ne.
28.	75	74	sw.	1	.	.	.	n.	10	sw.
29.	75	74	sw.	0	.	.	.	n.	10	sw.
30.	73	71	sw.	0	.	.	.	n.	10	sw.

Means..... 77.4

Departure +0.5

the proposed Nicaragua Canal. The volcano Ometepe, on an island in Lake Nicaragua, is about 10 miles northeast of the station. Dr. Flint's records occasionally mention the presence of clouds on the summit of this mountain.

Dr. Flint's reports to the Weather Bureau now embrace two distinct features, namely, the simultaneous morning observations and the daily climatological summary, as given in the two accompanying tables for each month.

Climatological observations for twenty-four hours ending at 7:17 a. m. local (or 1 p. m. Greenwich) time, November, 1899.

Date.	Temperature.		Wind.		Average cloudiness.	Total rainfall.	Rainfall at Sapo.	Sardinias.	Wind. Direction.	Wind. Force.
	Maximum.	Minimum.	Prevailing direction.	Maximum force.						
1.	o	o	ne.	4	o	8	Inches.	Ins.	0.00	0.00
2.	81	76	ne.	3	1	0.53	0.00	0.00	e.	4
3.	83	76	ene.	3	1	0.00	0.21	0.00	e.	4
4.	85	77	ne.	4	5	0.00	0.04	0.01	e.	4
5.	86	76.5	ne.	3	2	0.32	0.85	1.85	se.	4
6.	83	76.5	e.	3	9	T.	0.24	0.14	e.	4
7.	83	76	ne.	5	9	T.	0.15	0.22	s.	4
8.	84	75	sww.	2	5	0.00	0.33	0.17	s.	4
9.	85	74	ne.	2	8	0.80	0.08	0.11	ne.	4
10.	83	76	ne.	4	6	0.10	0.16	0.47	e.	4
11.	84	76	ne.	3	4	0.00	0.18	0.04	ne.	4
12.	84	77	ne.	4	9	0.00	0.00	0.00	ne.	4
13.	86	78	ne.	6	5	0.00	0.02	0.11	ne.	4
14.	86	78.5	ne.	6	6	0.31	0.11	0.14	ne.	4
15.	88	78	ne.	4	8	0.04	0.28	0.00	e.	1
16.	79.5	76	ne.	5	10	0.00	0.00	0.04	e.	1
17.	84	76	ne.	5	6	0.00	0.00	0.04	e.	0
18.	86	77	ne.	4	8	0.00	0.09	0.88	0	0
19.	87	77.5	ne.	5	3	T.	0.98	0.44	e.	3
20.	86.5	78	ne.	4	4	0.00	0.08	0.17	e.	1
21.	85.5	77.5	ne.	3	7	0.26	0.40	0.00	se.	1
22.	84.5	76.5	se-sw.	2	6	0.10	0.11	0.18	0	0
23.	87	77	e.	2	5	0.36	0.01	0.00	s.	1
24.	86	77	e.	1	8	0.00	0.19	0.38	s.	0
25.	85	75	aw.	1	10	0.88	0.09	0.01	0	0
26.	86	77	sw.	1	6	0.00	0.00	0.00	0	0
27.	85	74	ne.	2	7	0.44	0.52	2.44	ne.	1
28.	80	76	ne.	3	10	0.53	0.70	0.18	s.	1
29.	78.5	74	sw.	3	7	3.15	0.62	0.21	s.	2
30.	78	75	sw.	1	10	1.70	1.19	3.18	se.	2
Sums										4
Means.....	84.0	76.3	.....	.....	6.4	.....	.....	.....	.....	1
Departure .....	.....	.....	.....	.....	+5.12	.....	.....	.....	.....	1

In this report Mr. Flint gives the rainfall at Sapo and Sardinias, Nicaragua. Sapo, like Rivas, is on the southwest shore of Lake Nicaragua, and about 15 miles southeast of Rivas. Sardinias is 25 miles east of Sapo, on the lake shore.

6th, 7th, 8th, cold wave, southwesterly breezes. 8th, thunderstorm 9 p. m. to 3 a. m. of the 9th, followed by rain. On morning of 8th severe rain at San Bartol, 5 miles northwest, the wind from west. The storm of 9th was severe at Belen, lasting all night, but 6 miles northwest, it rained till 10 a. m. of 10th. November aerolites watched for; disappointed; five seen by others a. m. of 13th and 14th. Francisco Salazon, of Nandaime saw a large one on the 14th; could not tell color. First saw a dim light over a cloud, and said light of meteor obscured the moon. On the night of the 23d, two passed north and south, five minutes apart; small, shooting in a direct line; height, 12°; no trail. On the 6th General Fonseca reports one at Escalanti; no explosion; course east to west. Many severe rains reported this month in places near here. 26th, heavy rain at Potosi. Here our first excessive rain on the 28th, from 1 to 1.45 p. m., mostly in first twenty minutes; wind southwest, light. 7:17 a. m. of 29th, 3.15 inches fell in nineteen hours and thirty-two minutes. Barometer commenced rising on the 29th. On the 30th, barometer read 29.78, .20 below normal; misting to 11 a. m.; wind veered to northeast 1 p. m.; alto cumulus from southwest; cumulus east. Never observed here anything like the thunderstorms of this month. Rainfall also exceeded any for nineteen years.

29th, thunderstorm at Managua.

This station is situated on the western shore of Lake Nicaragua, not far from the eastern end of the western division of